# PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LAM/EKCB/20667.	FOR FURTHER ACTION	(T) DOMAG : Man (A)		
International application No. PCT/SG2003/000274	International filing date (a 20 November 2003	lay/month/year)	(Earliest) Priority Date (day/month/year)	
Applicant	20 November 2003	•	20 November 2003	
AGENCY FOR SCIENCE, TE	ECHNOLOGY AND R	ESEARCH et al		
This international search report has been prep Article 18. A copy is being transmitted to the This international search report consists of a to	International Bureau.	earching Authority and i	s transmitted to the applicant according to	
It is also accompanied by a copy	•	cited in this report.		
1. Basis of the report			; it	
which it was fried, unless øtherw	rise indicated under this iten	1.	f the international application in the language in	
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).				
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:				
<u> </u>	ernational application in written form.			
	te international application in computer readable form.			
	quently to this Authority in written form.			
furnished subsequently to this Authority in computer readable form.  the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international				
application as filed has been	turnished.	•		
lumished		readable form is identi	cal to the written sequence listing has been	
Certain claims were found unsea	•			
Unity of invention is lacking (See	e Box II).			
. With regard to the title, X the	he text is approved as submi	itted by the applicant.		
th	ne text has been established	by this Authority to rea	ad as follows:	
With regard to the abstract, X th	ne text is approved as submi	tted by the applicant		
1ì	e text has been established, he applicant may, within on ibmit comments to this Autl	e month from the date	(b), by this Authority as it appears in Box III. of mailing of this international search report,	
The figure of the drawings to be published				
as	suggested by the applicant.		X None of the figures	
be	cause the applicant failed to	suggest a figure		
bea	cause this figure better char	acterizes the invention		

International application No.

PCT/SG2003/000274

Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This in reasons	ternational search report has not been established in respect of certain claims under Article 17(2)(a) for the following
1.	Claims Nos:
	because they relate to subject matter not required to be searched by this Authority, namely:
2.	X Claims Nos: 25-30
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
$\mathbf{c}$	The claims do not comply with rule 6.3 of the PCT which states that " The definition of the matter for which protection is sought shall be in terms of the technical features of the invention." The claims are directed to a mutant AlbD polypeptide <i>per se</i> . (see continuation)
3.	Claims Nos:
-	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)
Вох П	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims
2.0	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. *	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
lemark o	n Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

International application No.

PCT/SG2003/000274

#### Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

#### Continuation of Box No: I

As such, the claims are mot limited to the technical feature of the invention which appears to resides in a method of enriching the GC content of a DNA molecule or of making mutations by using the GC enrichment method. In contrast, the claims simply define a mutant polypeptide. Thus as the claims are not restricted to the technical feature of the invention they were not the subject of an additional search.

International application No.

PCT/SG2003/000274

A.	CLASSIFICATION OF SUBJECT MATTE	CR	
Int. Cl. 7:	C12N 15/11, C12N 15/01,		
According to	International Patent Classification (IPC) or to b	oth national classification and IPC	
В.	FIELDS SEARCHED	•	•
SEE ABOV	•	·	
SEE BELOV	W	extent that such documents are included in the fields search	hed
Electronic data WPIDS, ME	base consulted during the international search (name EDLINE, CAPLUS, BIOSIS, AGRICOLA (	of data base and, where practicable, search terms used) PCR, G C enrichment, mutagenesis, guanine, ur	acil, mismatch)
C.	DOCUMENTS CONSIDERED TO BE RELEVA	NT	
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
A	Branda, R. F., et al; MUTATION RESEARCH, (1999 Jun 30) 427 (2) 79-87.  The effect of folate deficiency on the hprt mutational spectrum in Chinese hamster ovary cells treated with monofunctional alkylating agents.  Whole document		
<b>A</b>	Szala, S., and Chorazy, M; BULLETIN DE L'ACADEMIE POLONAISE DES SCIENCES, SERIE DES SCIENCES BIOLOGIQUES (1969), 17(5), 277-84 Irreversible denaturation and "thermal fractionation" as the basis of narrowing of mammalian DNA heterogeneity. Whole document		
	orther documents are listed in the continuation	on of Box C See patent family anne	X
document which is relevance earlier ap after the last the	pplication or patent but published on or "X" international filing date  t which may throw doubts on priority "Y" or which is cited to establish the on date of another citation or other special is specified)	later document published after the international filing data and not in conflict with the application but cited to undersor theory underlying the invention document of particular relevance; the claimed invention considered novel or cannot be considered to involve an inwhen the document is taken alone document of particular relevance; the claimed invention considered to involve an inventive step when the docume with one or more other such documents, such combination a person skilled in the art document member of the same patent family	cannot be ninctive step cannot be nannot be nannot be not is combined
	completion of the international search	Date of mailing of the international search report	
25 February 20		2 6 FEB 2004	
USTRALIAN P O BOX 200, WO	g address of the ISA/AU ATENT OFFICE DDEN ACT 2606, AUSTRALIA ct@ipaustralia.gov.au 2) 6285 3929	Authorized officer  David Olde  Telephone No: (02) 6283 2569	

International application No.
PCT/SG2003/000274

ation). DOCUMENTS CONSIDERED TO BE RELEVANT	C (Continua		
Citation of document, with indication, where appropriate, of the relevant passages	Category*		
Zacharias, M., and Sklenar, H.; BIOPHYSICAL JOURNAL, (2000), Vol 78: 2528-2542 Conformational deformability of RNA: A harmonic mode analysis. Whole document			
Fox, K. R., et al; NUCLEIC ACIDS RESEARCH, (2000), Vol 28 (13): 2535-2540. Recognition of GT mismatches by Vsr mismatch endonuclease. Whole document			
The second secon	)		
7			
35-2540.	Citation of document, with indication, where appropriate, of the relevant passages  Zacharias, M., and Sklenar, H.; BIOPHYSICAL JOURNAL, (2000), Vol 7 2542  Conformational deformability of RNA: A harmonic mode analysis.  Whole document  Fox, K. R., et al; NUCLEIC ACIDS RESEARCH, (2000), Vol 28 (13): 25  Recognition of GT mismatches by Vsr mismatch endonuclease.  Whole document		